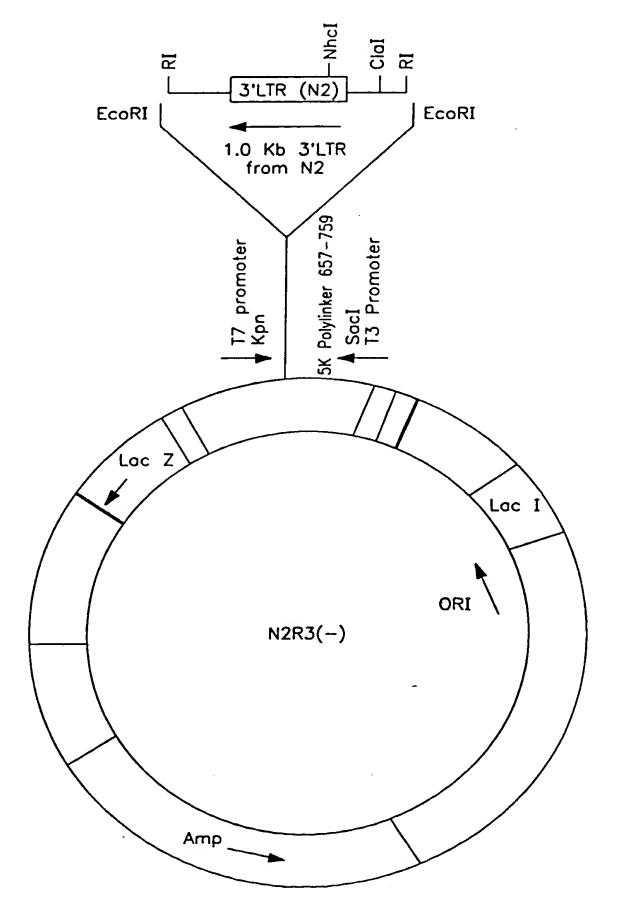
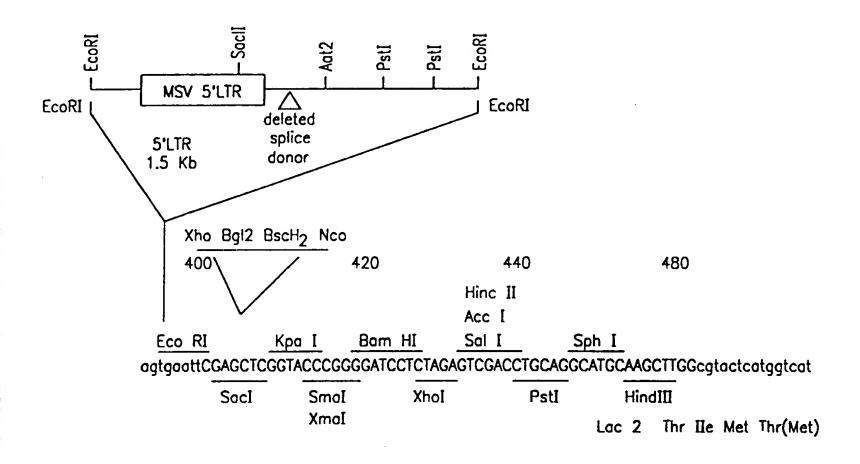


FIG. 1



ž

FIG. 2



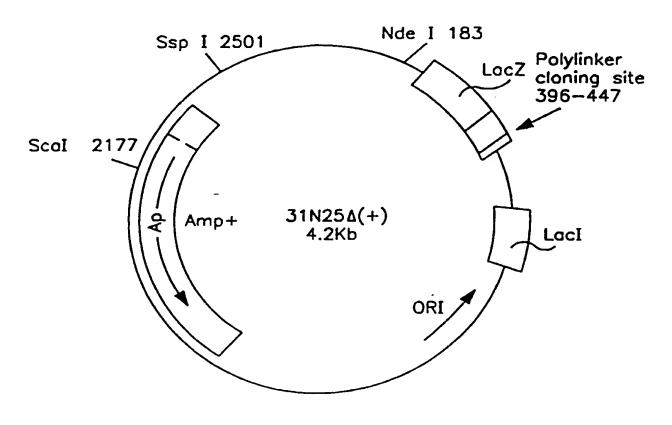


FIG. 3

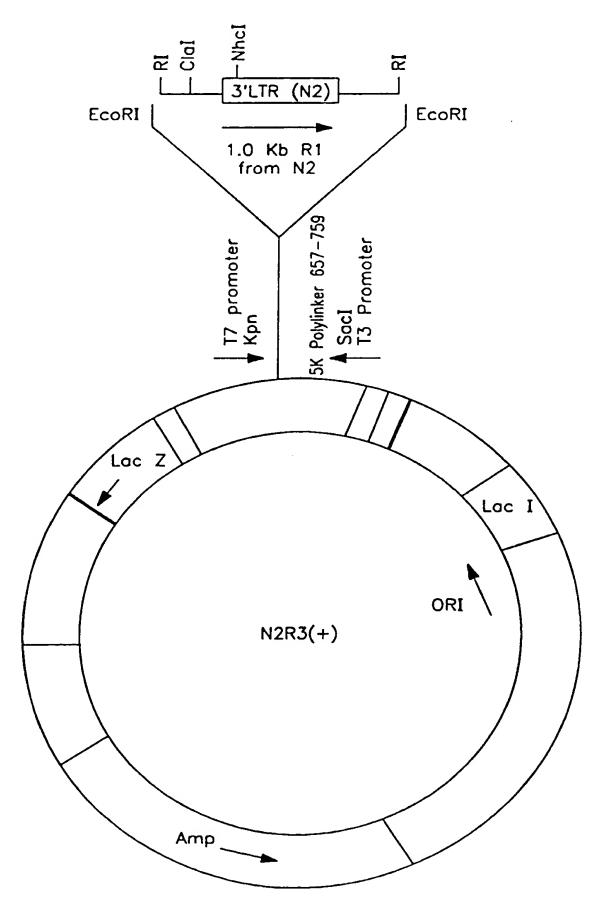
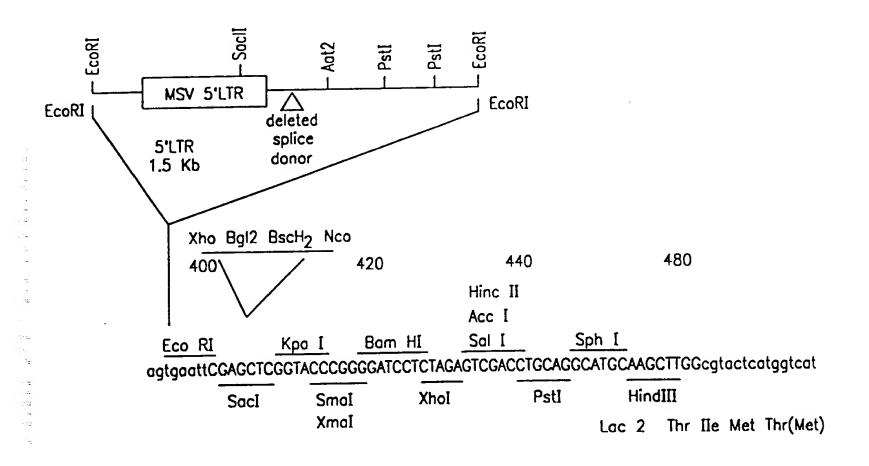


FIG. 4

FIG. 5



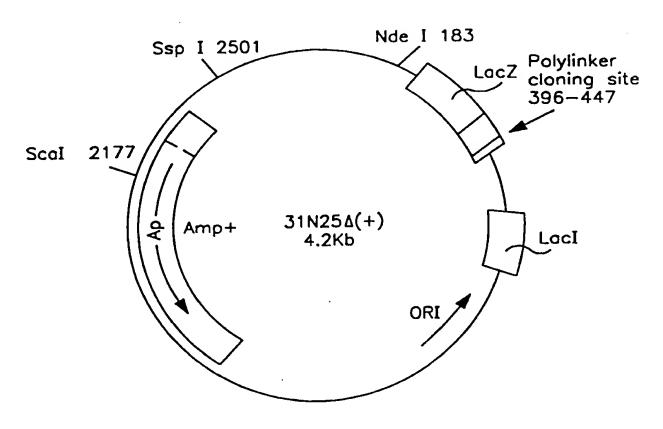
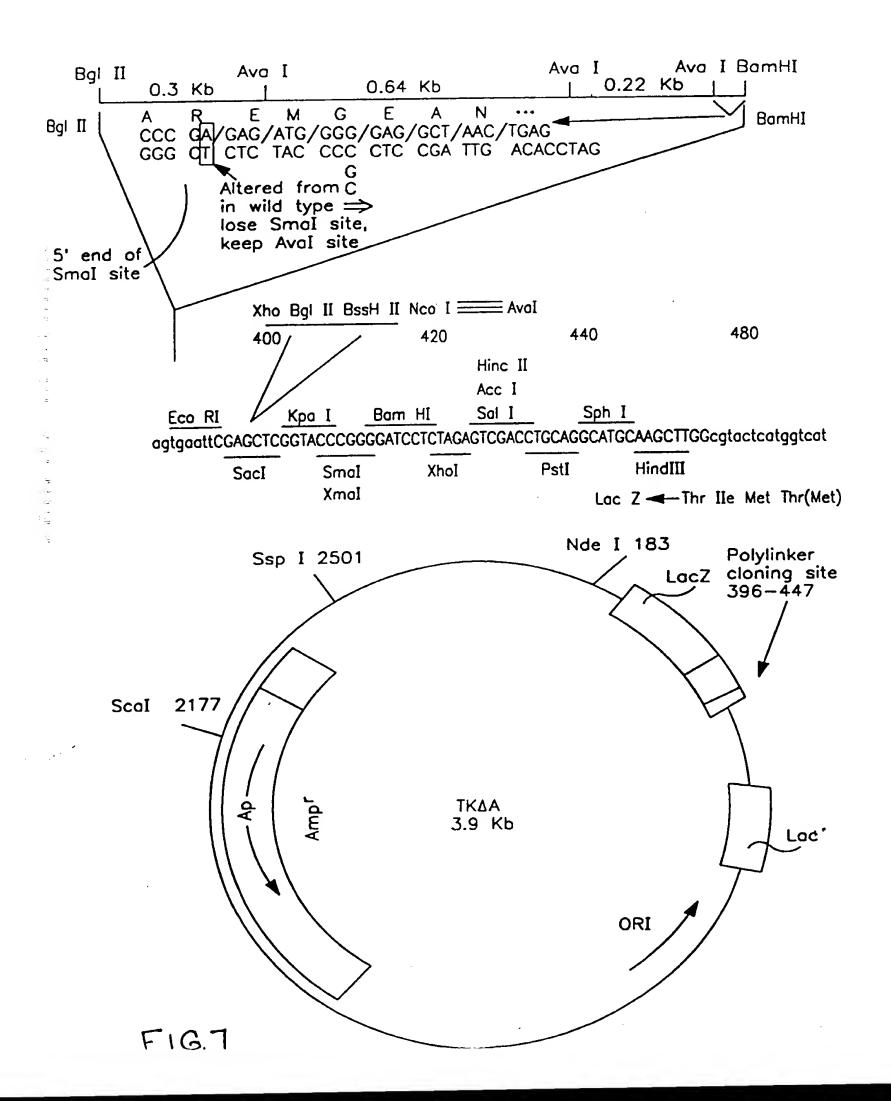


FIG. 6



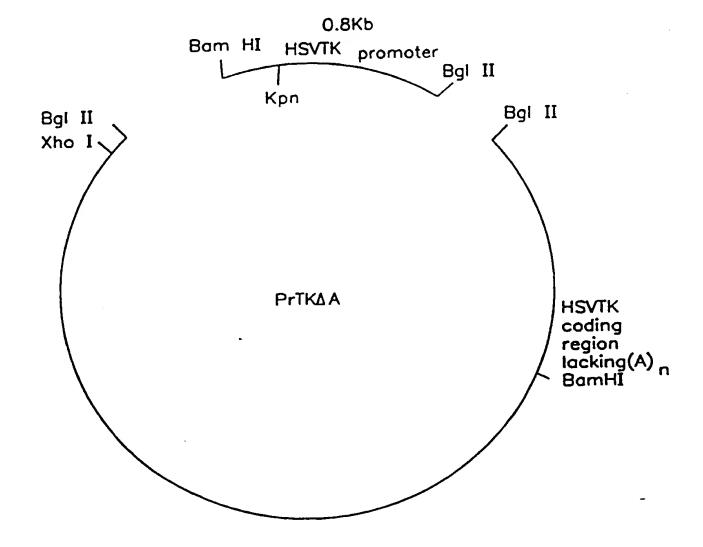


FIG. 8

FIG. 9

ond.

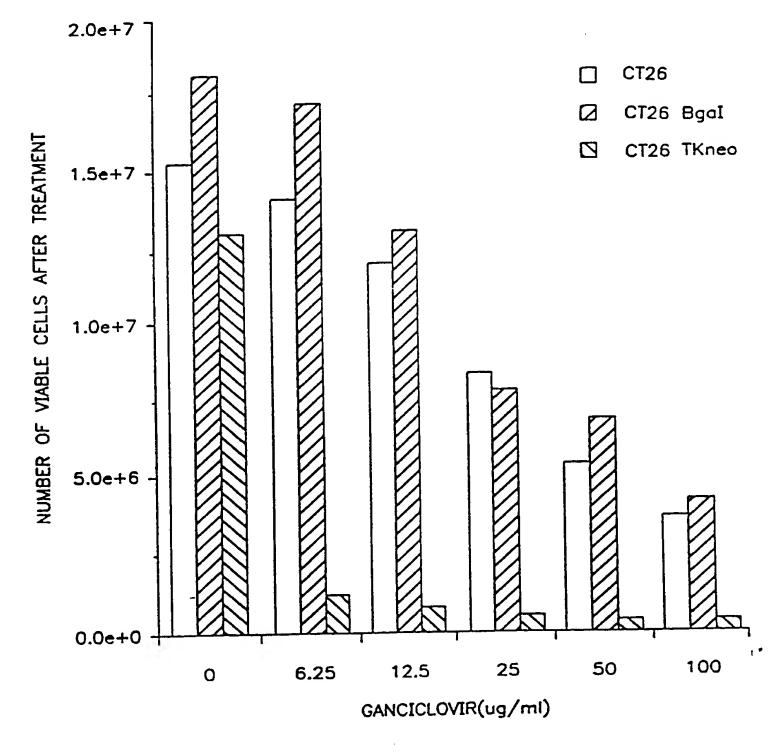
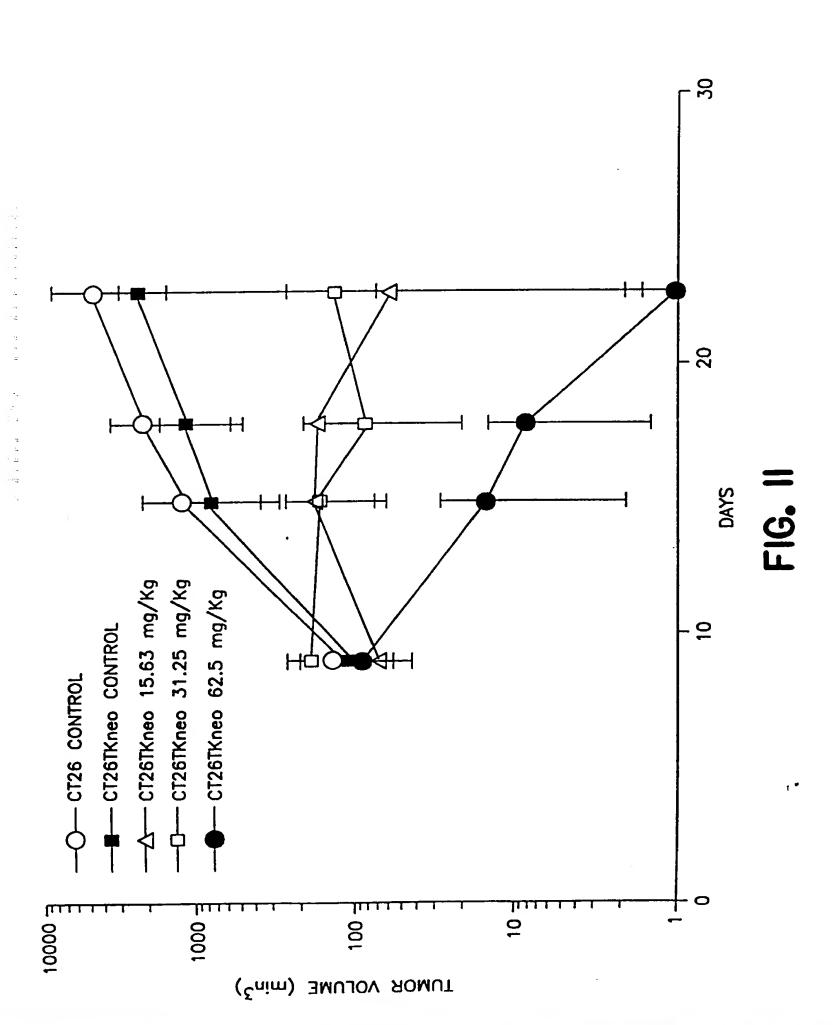
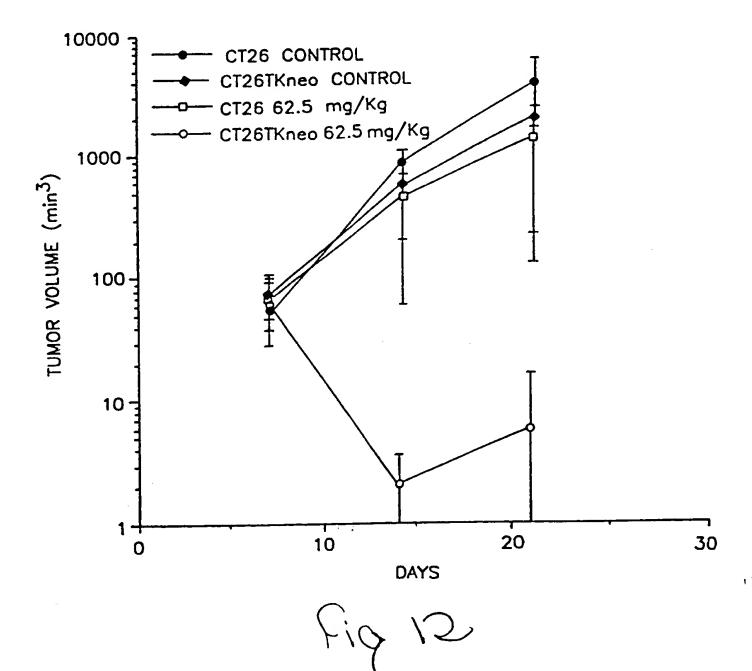
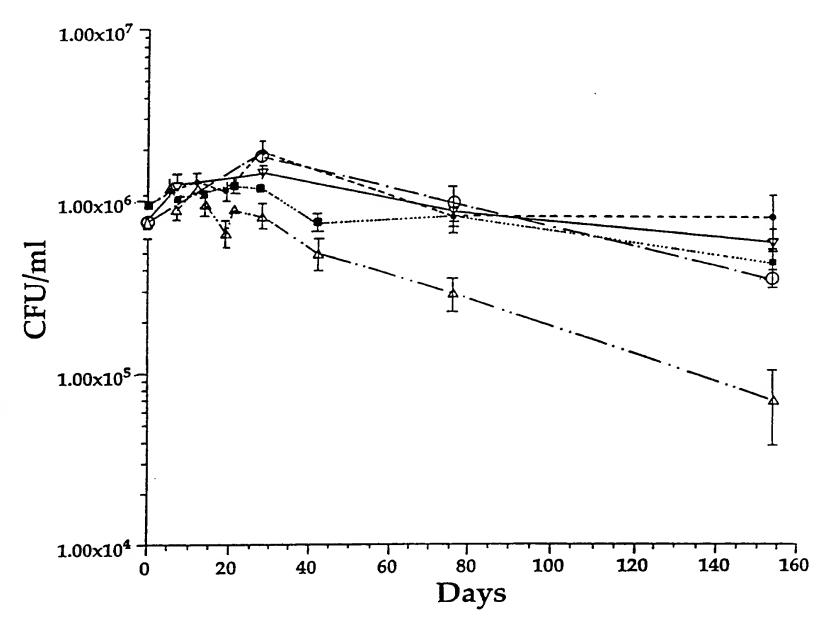


FIG. 10







Formulation: 25mM Tris pH 7.2 60mM NaCl 1 mg/ml Arginine 5 mg/ml HSA 50 mg/ml Lactose

	-80°C Liquid
⊙	-20°C Liquid
	-20°C Lyoph
	Refrig. Lyoph
-	R.T. Lyoph

FIG. 13

160 140 120 100 Days CFU/ml 1.00x104 1.00x 1.00×10¹= 1.00×106 1 1.00×10⁵= 1.00×10⁷ 1.00×10² = 1.00×10⁰+

25mM Tris pH 7.2 25mM NaCl 40 mg/ml Mannitol 1 mg/ml Arginine 5 mg/ml HSA Formulation:

-a- -80°C Liquid

---- -20°C Lyoph

.-- Refrig. Lyoph ---- R.T. Lyoph

FIG. 14

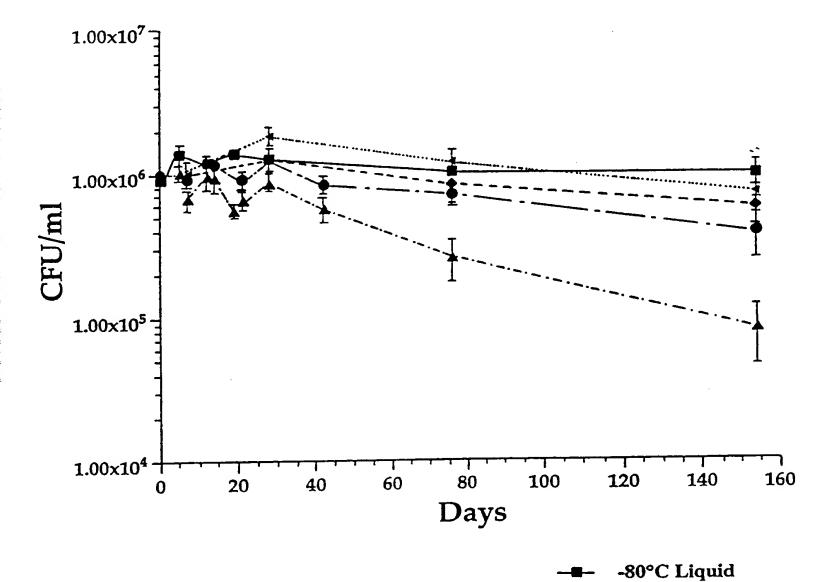
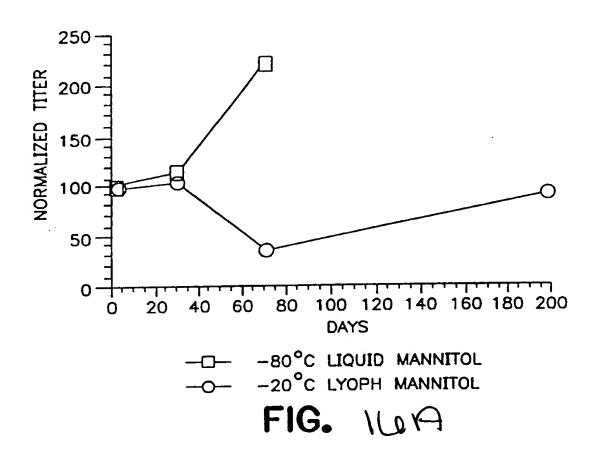
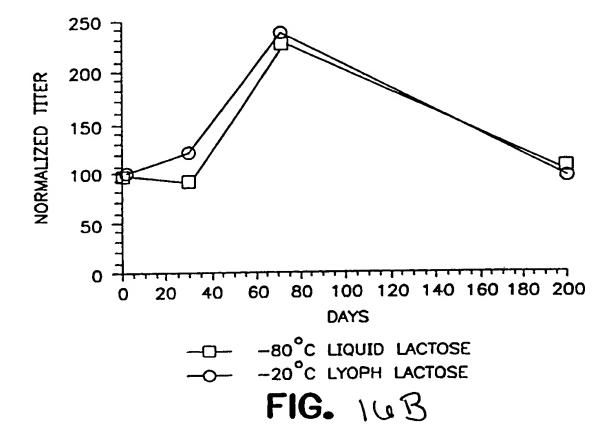


FIG. 15





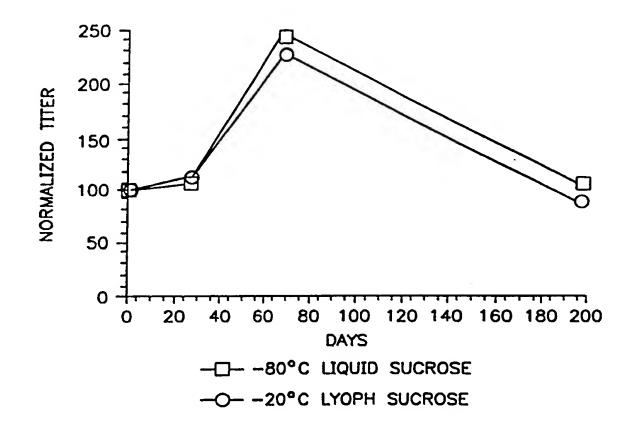


FIG. 160

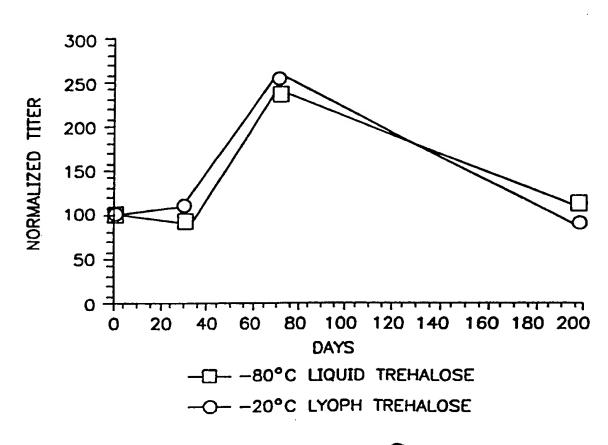
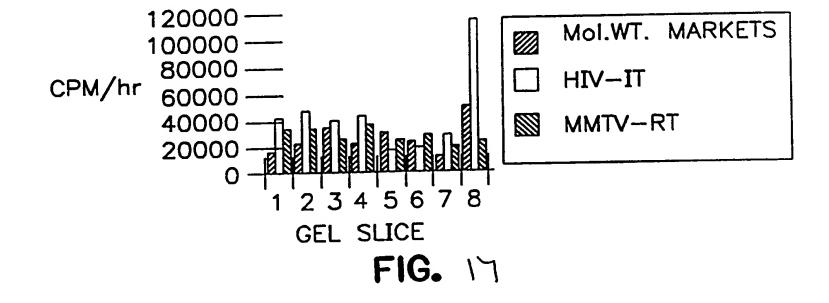


FIG. 160



AND S

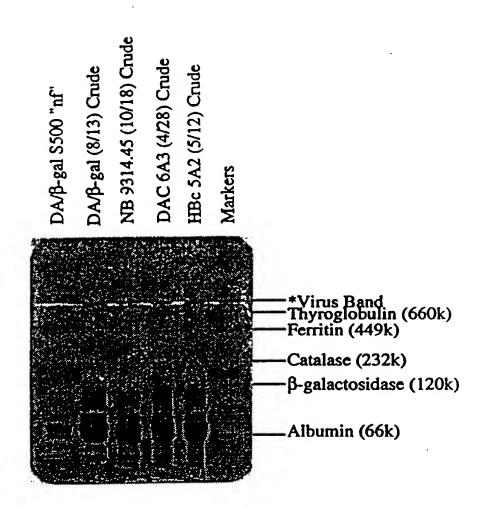


FIG. 18

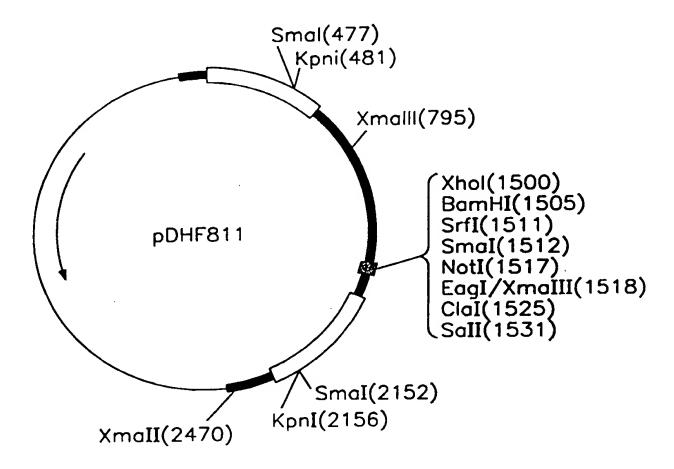
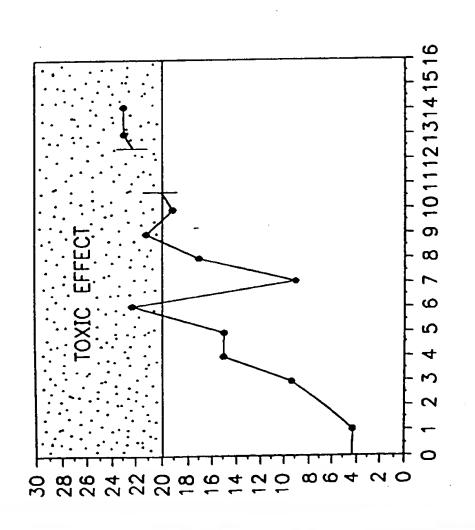
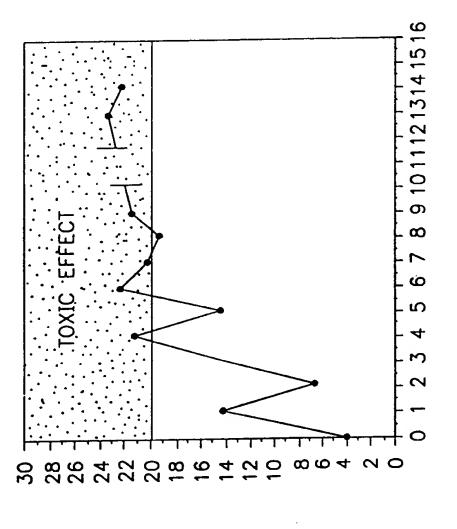


FIG. 19



CULTURE DAY

FIG. 20A



CULTURE DAY

FIG. 2018

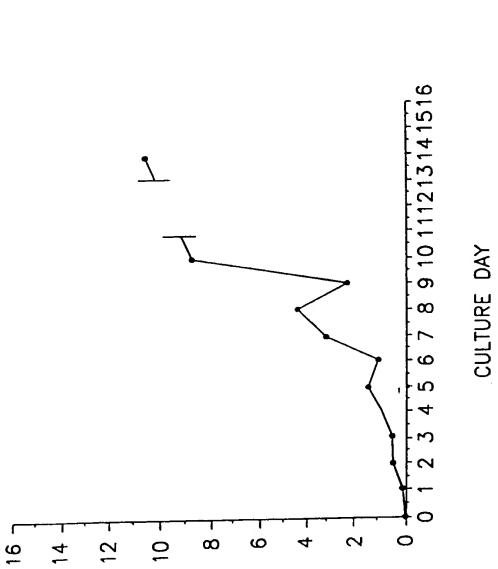


FIG. 200 C

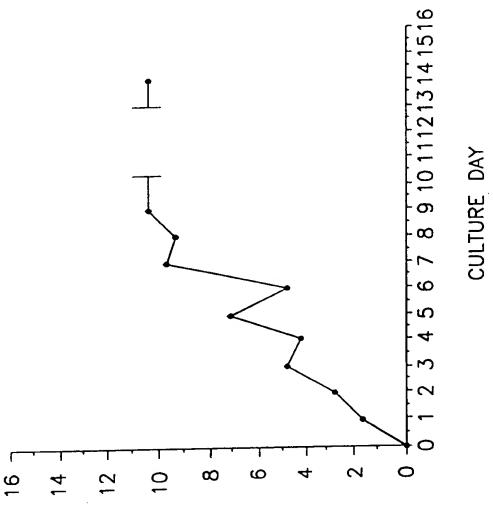
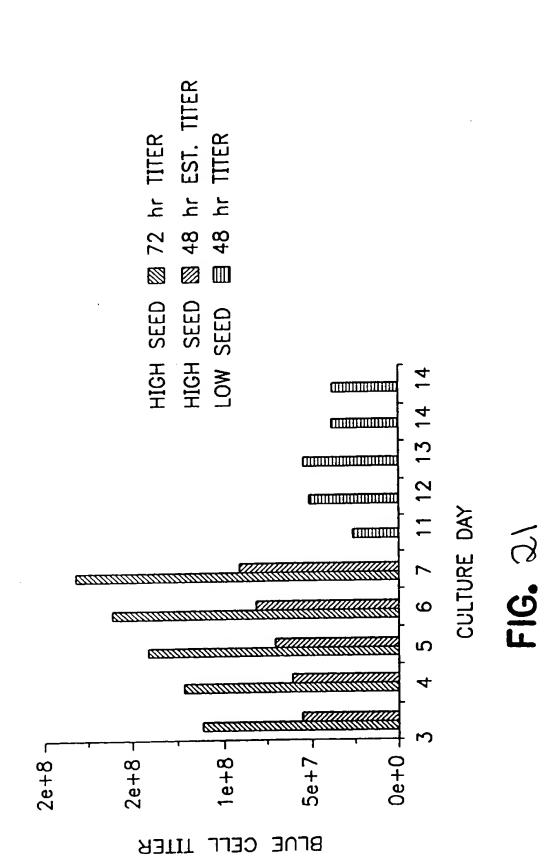
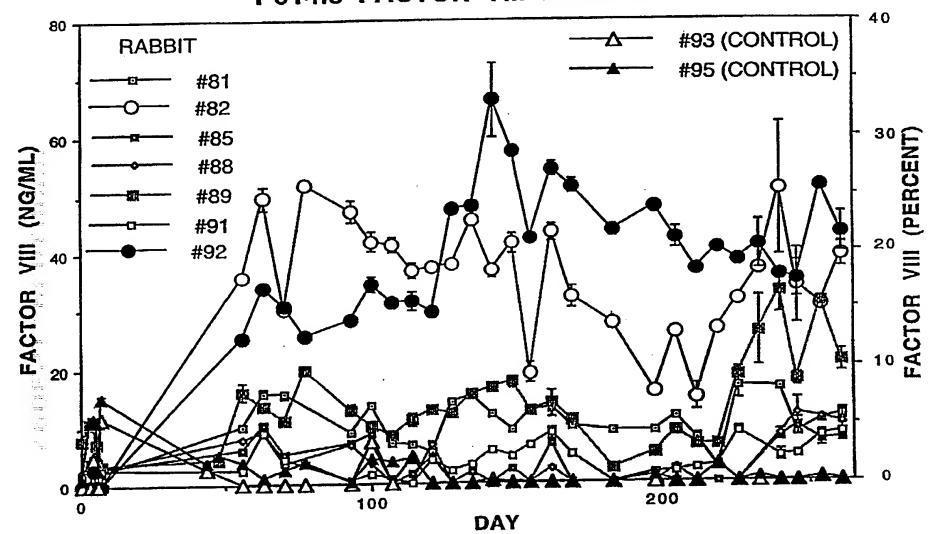
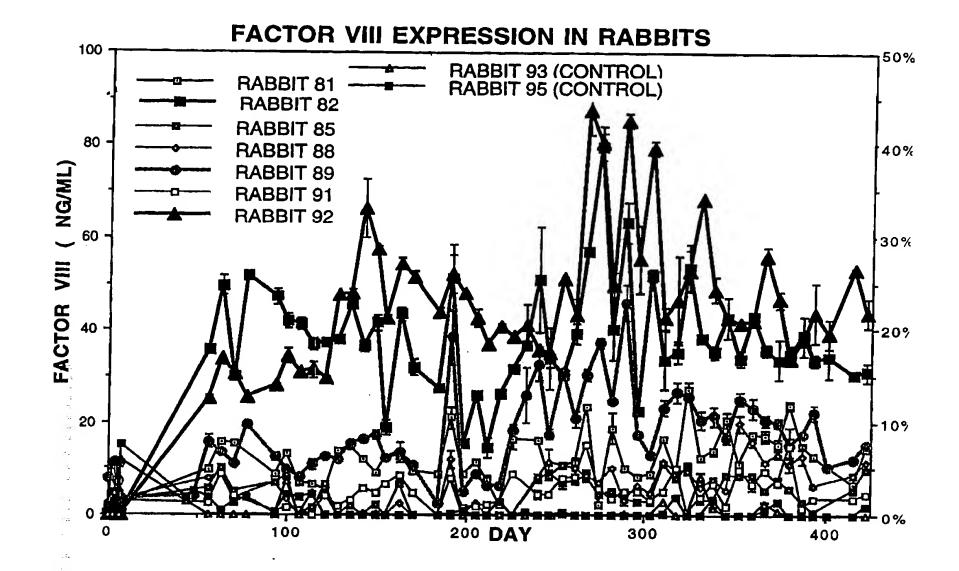


FIG. 20D

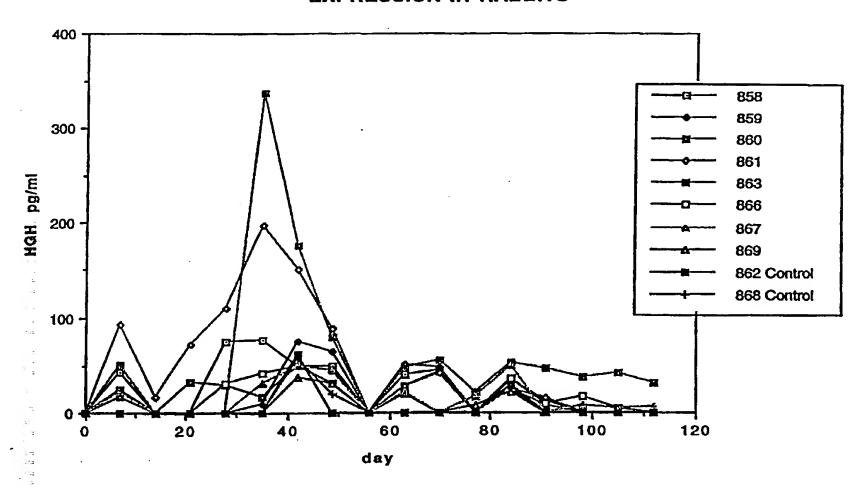


P614.8 FACTOR VIII RABBITS



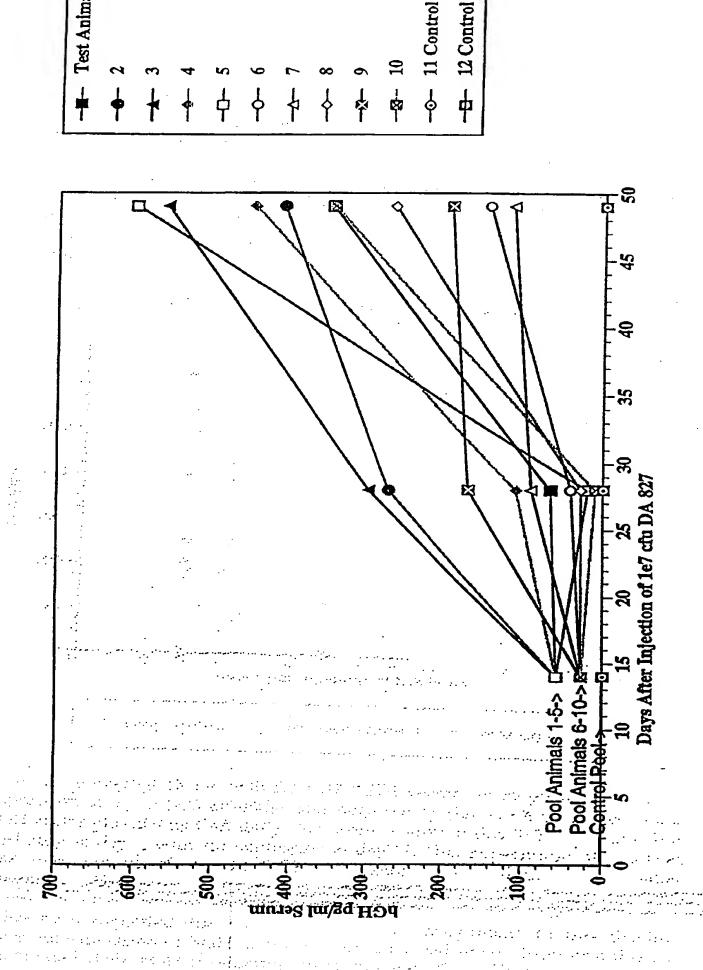


SYSTEMIC HUMAN GROWTH HORMONE EXPRESSION IN RABBITS



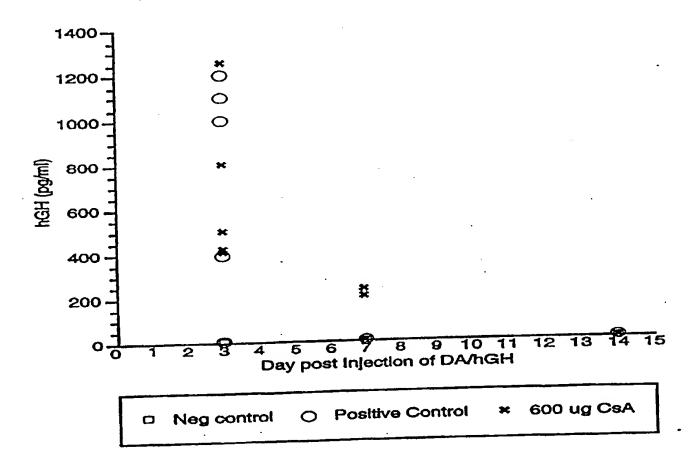
Time Course of hGH Expression in Mice Injected with DA 827

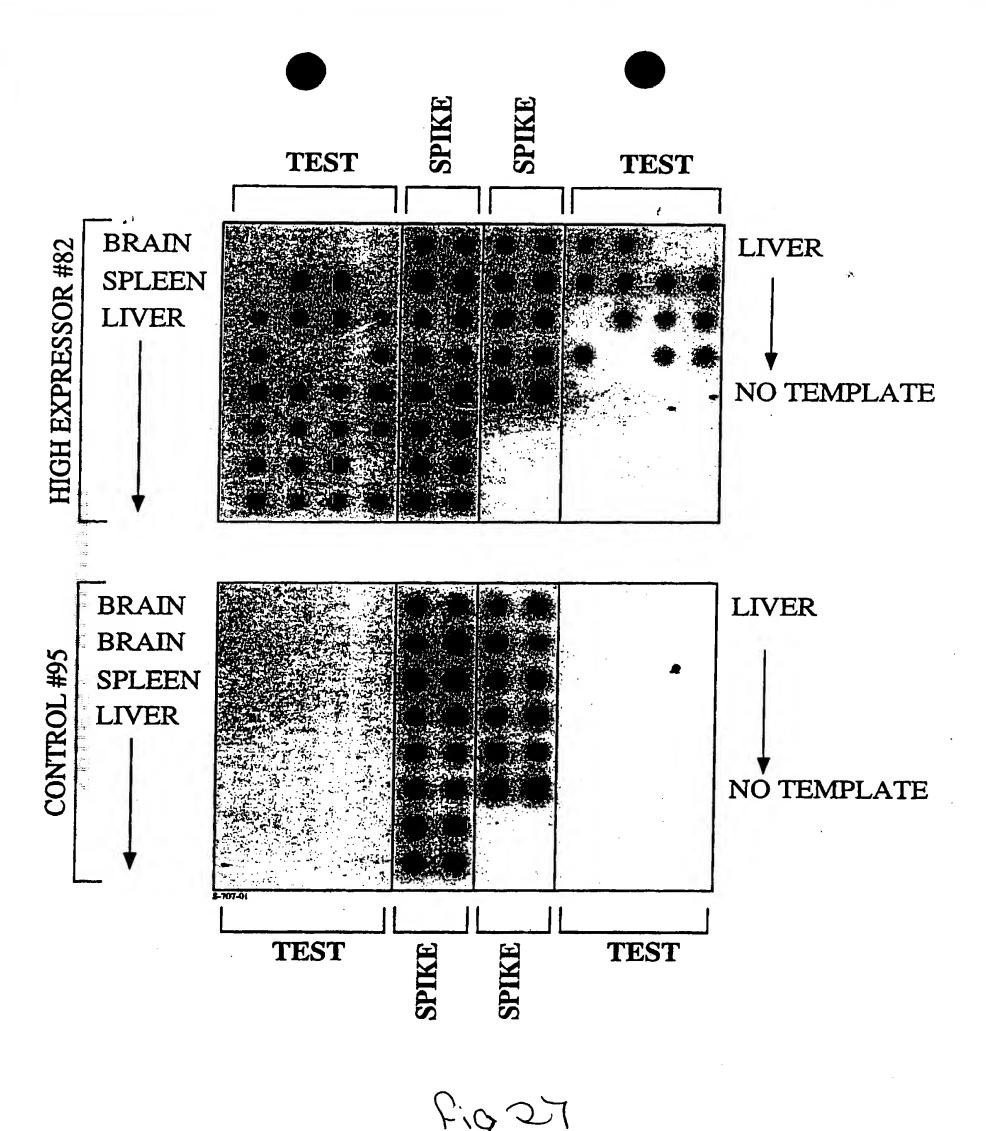
Test Animal 1



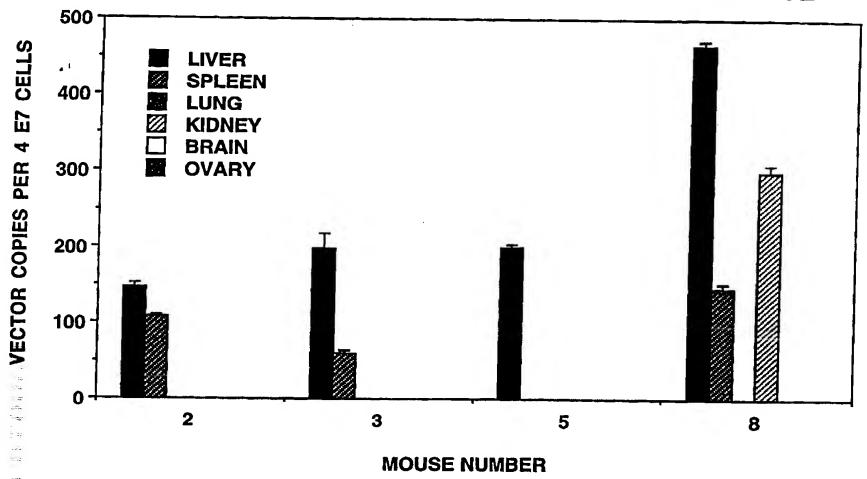
•Time Point 1 (Day 14) is an average of each pool.

hGH Levels in Murine Sera

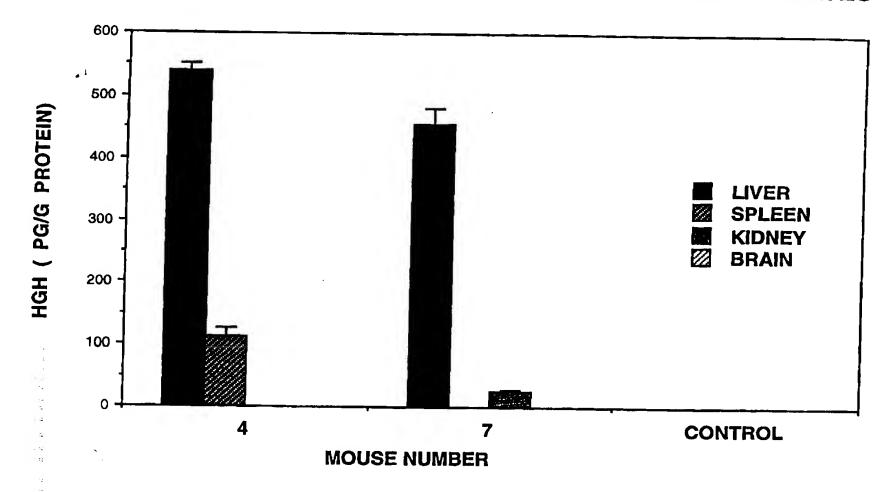




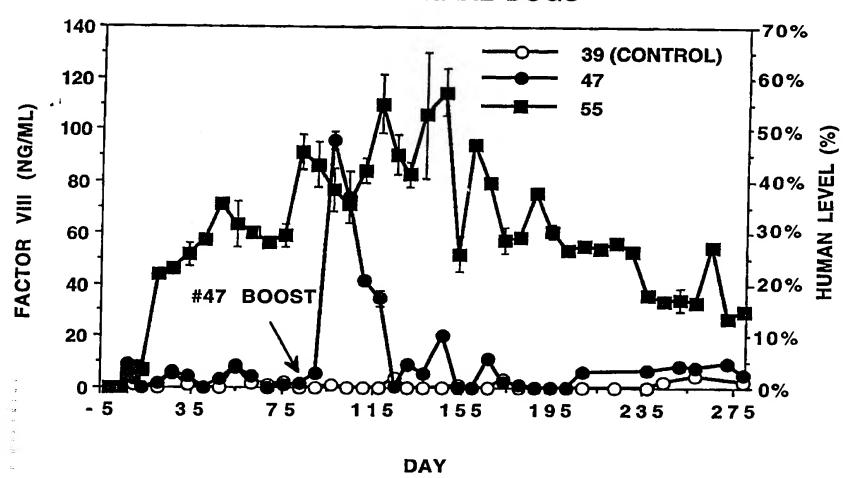
HUMAN GROWTH HORMONE PCR OF MOUSE TISSUE



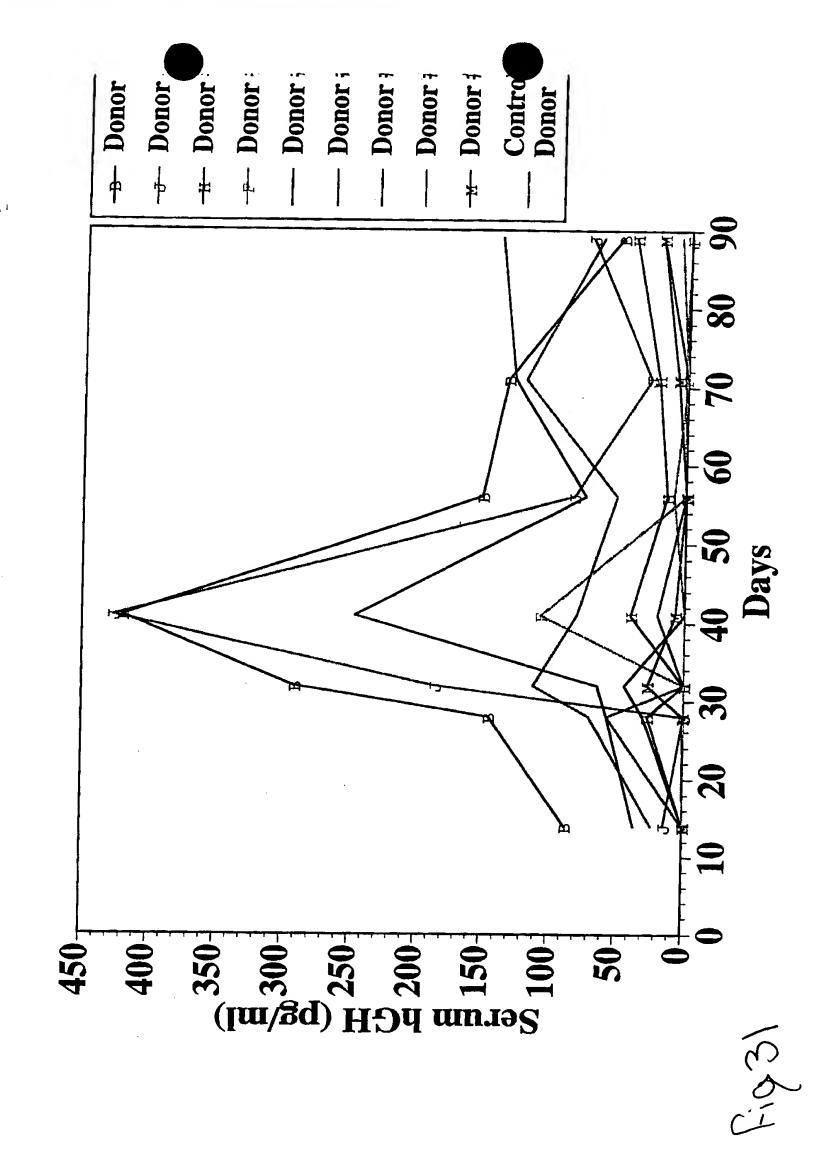
EXPRESSION OF HGH PROTEIN IN MOUSE ORGAN LYSATES



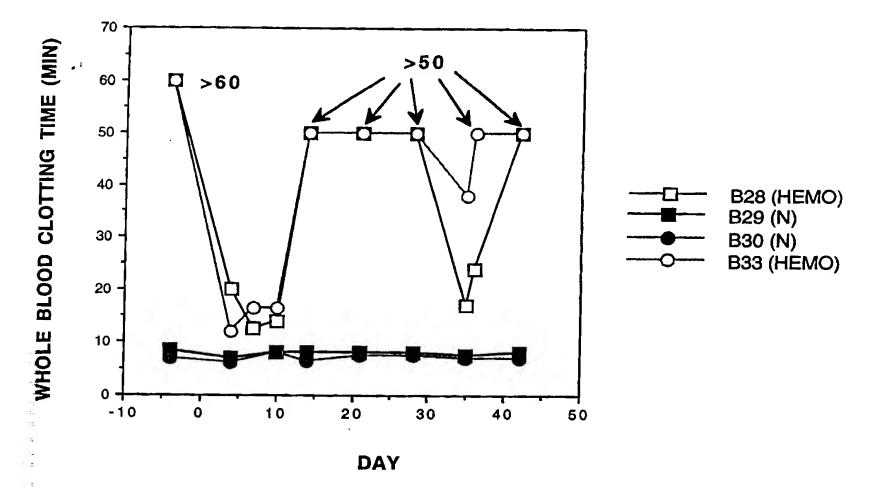
P888 NORMAL DOGS

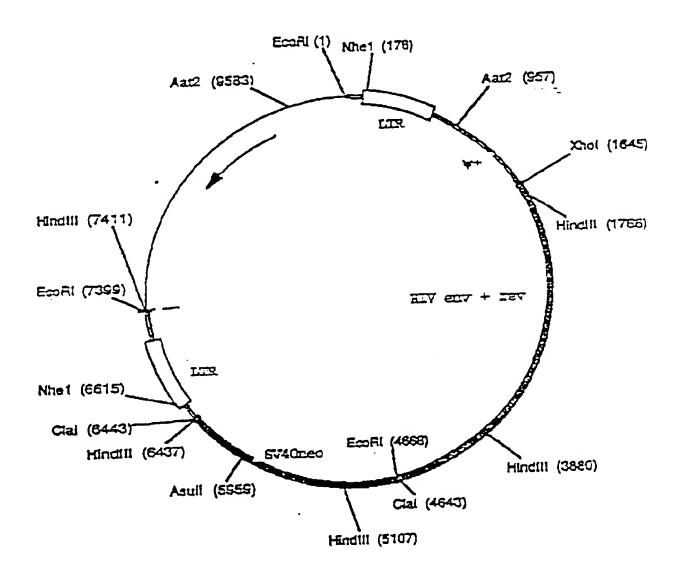


Transfer of hGH Expression by Spleenocytes

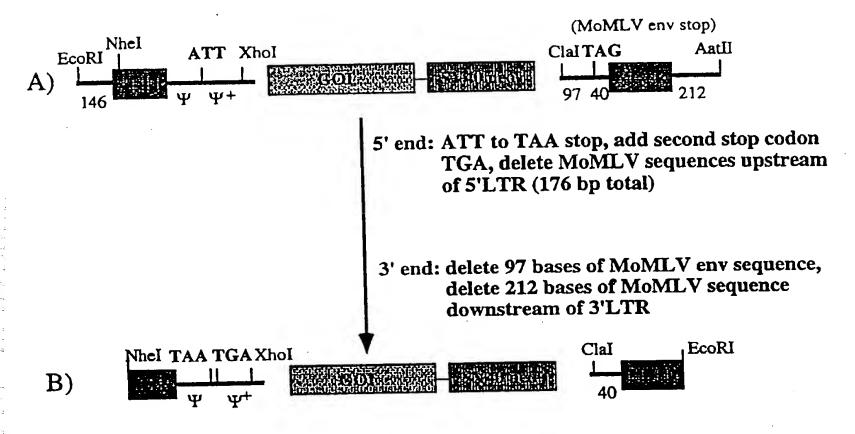


HEMOPHILIAC DOGS

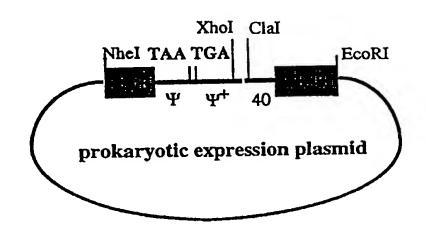


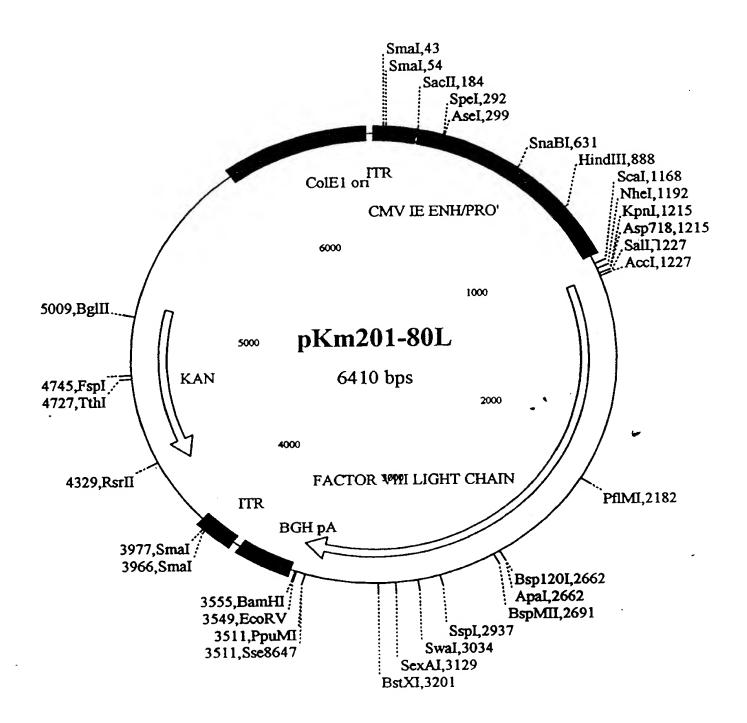


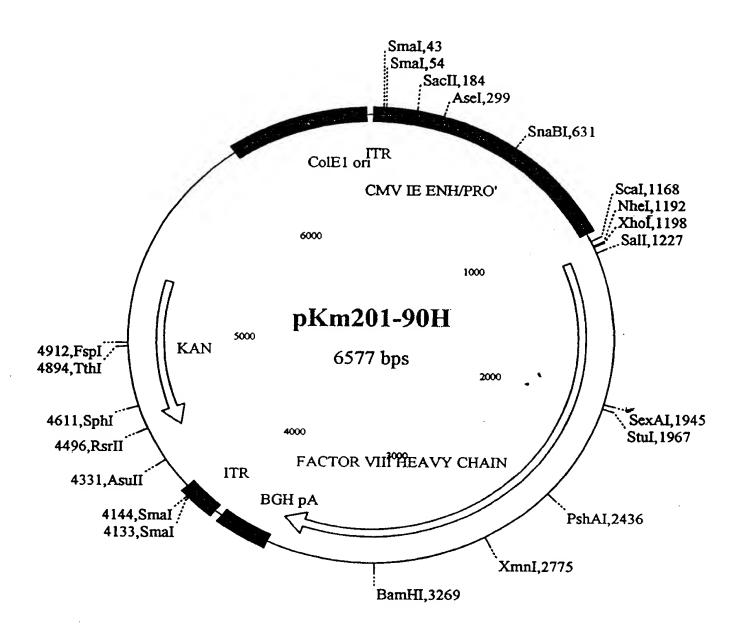
RETROVIRAL BACKBONE (N2-derived)

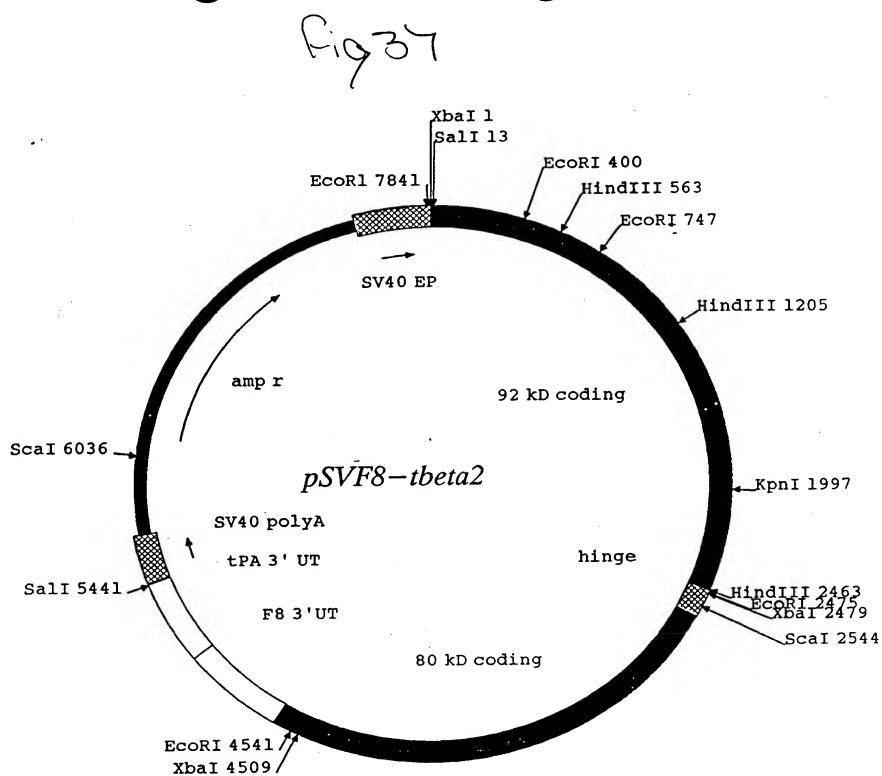


CROSS-LESS RETROVIRAL BACKBONE: pBA-5









Production of the second secon

2341	ArgGlyMetThrAlaLeuLeuLysValSerSerCysAspLysAsnThrGlyAspTyrTyr AGAGGCATGACCGCCTTACTGAAGGTTTCTAGTTGTGACAAGAACACTGGTGATTATTAC TCTCCGTACTGGCGGAATGACTTCCAAAGATCAACACTGTTCTTGTGACCACTAATAATG	Seq Seq	ID	No.	48 49
2401	GluAspSerTyrGluAspIleSerAlaTyrLeuLeuSerLysAsnAsnAlaIleGluPro GAGGACAGTTATGAAGATATTTCAGCATACTTGCTGAGTAAAAACAATGCCATTGAACCA CTCCTGTCAATACTTCTATAAAGTCGTATGAACGACTCATTTTTGTTACGGTAACTTGGT	,			
	< N-terminus of beta domain>				
2461	ArgSerPheSerGlnAsnSerArgHisProSerThrArgGlnLysGlnPheAsnAlaThr AGAAGCTTCTCCCAGAATTCTAGACACCCTAGCACTAGGCAAAAGCAATTTAATGCCACC TCTTCGAAGAGGGTCTTAAGATCTGTGGGATCGTGATCCGTTTTCGTTAAATTACGGTGG				
	2463 HIND3, 2475 ECORI, 2479 XBAI,				
	< IgA hinge>< C-term. beta domain>				
2521	ProProThrProProThrProProValLeuLysArgHisGlnArgGluIleThrArgThr CCTCCTACACCACCAACCCCACCAGTACTGAAACGCCATCAACGGGAAATAACTCGTACT GGAGGATGTGGTGGTTGGGGTGGTCATGACTTTGCGGTAGTTGCCCTTTATTGAGCATGA				-
	2544 SCAI,				
2581	ThrLeuGlnSerAspGlnGluGluIleAspTyrAspAspThrIleSerValGluMetLys ACTCTTCAGTCTGATCAAGAGGAAATTGACTATGATGATACCATATCAGTTGAAATGAAG TGAGAAGTCAGACTAGTTCTCCTTTAACTGATACTACTATGGTATAGTCAACTTTACTTC	٠			

Cig 38

2592 BCLI,

(i, 39)

ECOR1
NRU1
Prejion

Seq ID No. 75
AshSerArsHisPreSer
F8-14E
Seq ID No. 77
AATTCGCGACACCCTAGC
Seq ID No. 79
GCGCTGTGGGATCGGTTTTGGGTGGTCAGAAC
F8-15E

1 ECOR1, 5 NRU1, 59 MLU1,

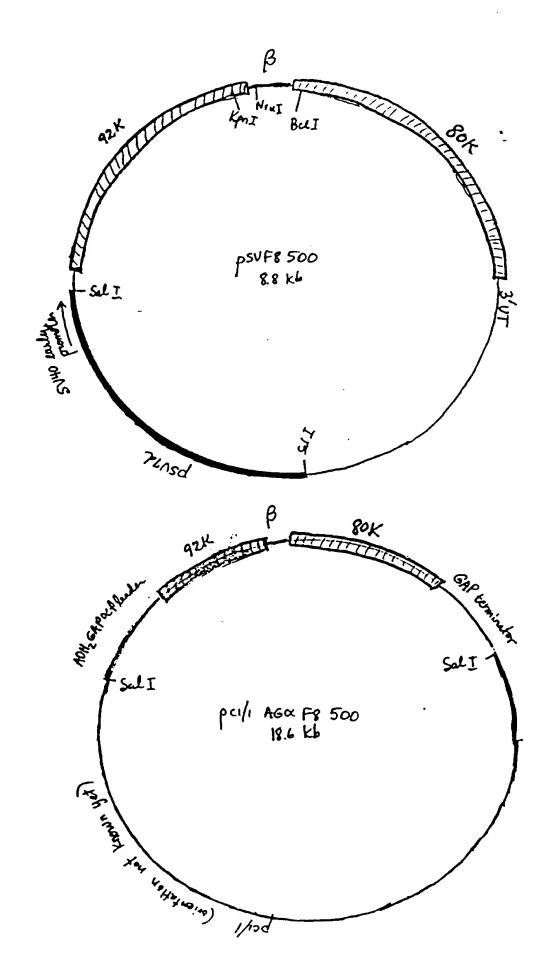
Seq ID No. 81
ArsJhrLeuGlnSerAsp
Seq ID No. 8262
GCATGAGAAGTCAGACTAG
Seq ID No. 83
GCATGAGAAGTCAGACTAG
F8-17E

76 BCL1,

:

,

Fig-40



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4 - 4

1,

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Linkers for pSVF8-500B

end 92 19aa C terminal to thrombin cleavage at 740

SerArgHisProSerThrArgGlnLysGlnPheAsnAlaThrProProValLeuLysArg Seq ID No. 50 TCGCGACACCCTAGCACTAGGCAAAAGCAATTTAATGCCACCCCACCAGTCCTGAAACGC Seq ID No. 51 AGCGCTGTGGGATCGTGATCCGTTTTCGTTAAATTACGGTGGGGTGGTCATGACTTTGCG wild type (TT)

> Start 80K HisGlnArgGluIleThrArg CATCAACGGGAAATAACGCGT **GTAGTTGCCCTTTATTGCGCA**

NRU1

mutant

MLU1 9aa N terminal to 80K